

## UNITED STATES D ARTHERT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

	APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
	08/328,632	10/25/94 PORU	BEK	D 0204
	12M1/1018 LEGAL AFFAIRS DEPARTMENT		EXAMINER	
			BERCH, M	
	CELL THERAPE			ART UNIT PAPER NUMBER
		AVENUE WEST SUIT	E 400	1000
	SEATTLE WA 9	8119		1202 DATE MAILED: 10/18/96
		•	. KOK	
	This is a communication from COMMISSIONER OF PATEN	the examiner in charge of your a ITS AND TRADEMARKS	pplication.	
			ACTION SUMMARY	•
Z R	esponsive to communication	on(s) filed on	(819)6	
-	his action is FINAL.			
] Si ad	ince this application is in co ccordance with the practice	ondition for allowance except e under Ex parte Quayle, 193	for formal matters, <b>prosecu</b> 5 D.C. 11; 453 O.G. 213.	tion as to the merits is closed in
vhich	ever is longer, from the ma oplication to become aband	response to this action is se ailing date of this communica doned. (35 U.S.C. § 133). E	tion. Failure to respond with	month(s), or thirty days, nin the period for response will cause tained under the provisions of 37 CFR
Dispo	osition of Claims	,		
X	Claim(s)	1-7,	9-20	is/are pending in the applicatio
	Of the above, claim(s)			is/are withdrawn from consideration
				is/are allowed.
Ac	Claim(s)		1-7,9/20	is/are rejected.
	Claim(s)			is/are objected to.
	Claims		are s	subject to restriction or election requireme
\ppli	cation Papers			
	See the attached Notice of	f Draftsperson's Patent Draw	ring Review, PTO-948.	
	The drawing(s) filed on		is/are object	eted to by the Examiner.
	The proposed drawing cor	rection, filed on		is _ approved _ disapprove
	The specification is objected	ed to by the Examiner.		
	The oath or declaration is	objected to by the Examiner.		
Priori	ity under 35 U.S.C. § 119	•		
] A	cknowledgement is made o	of a claim for foreign priority (	under 35 U.S.C. § 119(a)-(d	).
	All Some* None	e of the CERTIFIED copie	s of the priority documents h	ave been
	received.			
	received in Application N	No. (Series Code/Serial Num	ber)	· · · · · · · · · · · · · · · · · · ·
٦.	received in this national	stage application from the Ir	nternational Bureau (PCT Ru	le 17.2(a)).
*Ce	ertified copies not received:	;		
] A	cknowledgement is made o	of a claim for domestic priorit	y under 35 U.S.C. § 119(e).	
ittac	hment(s)			
$\dot{\Box}$	Notice of Reference Cited	, PTO-892		
	Information Disclosure Sta		r No(a)	
		itement(s), P10-1449, Pape	140(S)	
نا	Interview Summary, PTO-		140(S).	
_	Interview Summary, PTO-			

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Claims 1-7, 9-20 are rejected, 35 USC 112, para 1, for lack of enablement of how to use, for reasons given previously. Note the following:

- 1. The dosage problem remains, Applicant argues that the second dosage isn't really a daily dosage but the size of a single dose. That is not specifically what the specification states nor is it consistent with the paragraph as a whole. At the lower end, this would give 0.1 mg/kg a day in 0.001mg/kg doses, i.e. 1000 administrations of a single dose. At the upper end, that translates to 25 administrations of a dose. No one gives a drug 25, or 1000 times a day. Further, the paragraph says the dose is given 1-6 times a day, not 1-25 or 1-1000 times a day, finally, 10,000 fold a 40,000 fold dosage ranges is too large to be of any practical value; again. See In regardner, 1660 USPQ 138 on this specific point.
- 2. As stated previously, some choices e.g.  $XR_5$  alkyl cannot function as producing because the body cannot dealkylate an ether
- 3. As stated previously, applicants have not presented any evidence that lisofylline has actually been shown useful for anything. Applicants traverse this, but don't go so far as to state what, specifically, lisofylline has been shown useful for. If applicants cannot, who can?

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Claims 1-7, 9-20 are rejected under 35 U.S.C. § 112, first and second paragraphs, as the claimed invention is not described in such full, clear, concise and exact terms as to enable any person skilled in the art to make and use the same, and/or for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- 1. Original part 1 remains no amendment to this point was made.
- 2. The "naturally occurring" limitation for amino acid does render the term definite. However, three of the amino acid choices in claim 14 (viz, the last 3 species) are not naturally occurring.
- 3. The expansion of the  $R_2$  and  $R_3$  definition is  $n_2 = 0$  clearly new matter. That would present for example,  $n_3 = 1$  methoxymethyl. Where is such a choice embraced?
- 4. Moreover, it isn't enabled. It would for example permit peroxides, e.g.  $R_3 = CH_2 \ 00$   $CH_3$ , which would be too reactive for a pharmaceutical.
- 5. Original point 4 remains. The term still occurs in claim 1.
- 6. New claim 20 has N=5-8, i.e. fabids n=4. Hence, this compound cannot function as a product for listly line, sence that the proof of the production as a product for listly line, sence that the proof of the production of the pr

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has an "alkyl" piece to it; that has been tacked on, and of course its size is unknown.

8. Original point 8 remains. The original questions remain unanswered. It isn't even sear whether the linkage has to be entirely ester e.g. is  $\mathcal{E}(0)$  0-CH<sub>2</sub>- $\mathcal{E}^*$  permitted?

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- 9. Point 9 remains memory the tricycles hardly resolves the problem.
- 10. The replacement of "acetoxyl" with "acetoxy alkyl" is new matter. While the original term was clearly defective, applicants have not shown support for this particular choice, as opposed to other plausibly choices, such as " $C_{1-10}$  acetylalkyl" or "acetoxy".
- 11. In claim 1, applicant has deleted unsubstituted  $C_1$   $**C_2$  alkyl from the Rj definition (flow it is  $C_{3-10}$ ). However, species 10 and claim 14 has  $R_5$  =  $CH_3$ 
  - 12. The three terms added to the third to last line in claim 6 are all new matter. As with point  $^{12}$  the "alkyl" has appeared from nowhere.
    - 13. Original point 13 remains.
  - . 14. Point 14 remains; carbonyl and thiocarbonyl are m
  - 15. Point 26 remains for the middle 2 terms on page 27, line 33; whereis the  $\xi_{\rm H_3}$ ?

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16. Point 25 remains. Applicants have cancelled 2 letters from the name, but it is still unclear what this group is. Applicants are argued to present a structure in their remarks as to what they think this group is,

- 17. Point 24 remains. Carbocyclic rings are only permitted 4-7 atoms (see last line of claim 1).
  - 18. Original point 23 remains; these two terms remain
- 19. original point 19 remains; these terms are still e.g. in claim 6.
- 20. Point 22 remains. Changing & cyclic to carbocyclic is only a parted solution. Thus, does 3-benzoyl propyl qualify? The point of attachment & isn't a carbocyclic atom, but a carbocycle is present.
- 21. Claim 9 is still broader than claim 1. It refers to " $R_1$  or  $R_2$ ", but claim 1 has limited this group to just  $R_2$ .

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6-8, 104 rejected under 35 U.S.C. § 102(b) as being anticipated by EP 286041.

The reason was given previously, the methoxy group in the reference corresponds in the (claims to  $R_4 = \frac{OX(R_5-H, M=3)}{OX(R_5)_m}$ , where X=C  $Q_5=H$ , M=3.

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Claims 1-7, 10, 11, 15-17, 19 are rejected under 35 U.S.C. \$ 102(b) as being anticipated by \$6 93/17684.

The reasons were given previously. Using the broadest possible definition of "substituted....carbocyclic.....group", the C(OMe) (CF<sub>3</sub>) (Ph) group <u>does</u> qualify. It does posses a carbocycle and it is substituted.

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claim 20 is rejected under 35 U.S.C. § 103 as being unpatentable over WO 93 17684 or EP 286041.

New claim 20 is restricted to =5-8 =4 of the references. This however is just a chain homolog, a 5 membered chain rather than a 4-membered chain

However, it has been long established that this type of structural relationship-varying the size of a linking carbon

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chain - is per se obvious. Specifically, In re Shetty, 195
USPQ 753, In re Wilder, 195 USPQ 426 and Ex Parte Greshem 121
USPQ 422 all feature a compound with a  $C_2$  link rejected over a compound with a  $C_1$  link. In re Chupp, 2 USPQ 2nd 1437 has and In re Coes, 81 USPQ 369 have link unpatentable over a  $C_2$  link Ex parte Ruddy 121 USPQ 427 has a  $C_3$  link unpatentable over a  $C_1$  link Ex parte Nathan, 121 USPQ 349 found the insertion of a  $C_2H_4$  link obvious. In all of these cases, the variation was per-se obvious and did not require a specific teaching. Further, neither reference is limited to just N=4. Alkylene chains are taught generally, and larger chains are specifically seen in EP  $V_1$  2860 $V_2$ .

The abstract remains objected to. No indication is given as to use. Moreover, the important Formula II material, in abbreviated term, needs to be present.

Applicant's amendment necessitated the new grounds of rejection. Accordingly, **THIS ACTION IS MADE FINAL**. See M.P.E.P. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE

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MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Any inquiry concerning this communication should be directed to Berch at telephone number (703) 308-4718.

MARK L. BERCH PRIMARY EXAMINER PROUP 120 - ART UNIT 1

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October 11, 1996